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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/749,397	01/02/2004	Takeshi Yamamoto	247210US2	2859
22850 75	590 08/30/2006	EXAMINER		INER
C. IRVIN MCCLELLAND			CHEN, WEN YING PATTY	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
		2871		
			D. III	

DATE MAILED: 08/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/749,397	YAMAMOTO, TAKESHI				
Office Action Summary	Examiner	Art Unit				
-	W. Patty Chen	2871				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 14 Ju	<u>ıly 2006</u> .					
<i>;</i>	,—					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-4,6-10 and 12</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,6-10 and 12</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
o) Claim(s) are subject to restriction and/or	relection requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>10 June 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Tr) The oath of declaration is objected to by the Ex	ammer. Note the attached Office	Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
dee the attached detailed Office action for a list	or the certified copies not receive	.u.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		ate Patent Application (PTO-152)				

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DETAILED ACTION

The Advisory Action mailed on Aug. 2, 2006 was sent out inadvertently, due to the previous Non-Final Rejection mailed on Apr. 20, 2006 being mislabeled as Final Rejection in the system. Therefore, please disregard the Advisory Action. The current Final Rejection as set forth below is in response to the Amendments filed on Jul. 14, 2006.

Response to Amendment

Applicant's Amendment filed Jul. 14, 2006 post the Non-Final Rejection filed Apr. 20, 2006 has been received and entered. Claims 5 and 11 are cancelled per the Amendment filed. Therefore, claims 1-4, 6-10 and 12 are now pending in the current application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.

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3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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Claims 1-3, 6-9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cho et al. (US 2004/0114087) in view of Imabayashi et al. (US 6678030) further in view of Wen et al. (US 6208401).

With respect to claim 1 (Amended): Cho et al. disclose in Figure 12 a liquid crystal display apparatus including a liquid crystal layer (element 3) interposed between a first substrate (element 200) and a second substrate (element 100), comprising:

a first gap region (region corresponding to element 230R) with a first gap for interposition of the liquid crystal layer between the first substrate and the second substrate;

a second gap region (region corresponding to element 230B) with a second gap smaller than the first gap;

a first columnar spacer (element 323) formed in the first gap region on the first substrate; and

a second columnar spacer (element 321) formed in the second gap region on the first substrate, and

wherein the first substrate includes a light shield layer (element 220) formed in a picture-frame shape (as shown in Figure 7) along a peripheral edge of a display region.

Cho et al. fail to disclose that wherein a contact area of the first columnar spacer is greater than a contact area of the second columnar spacer and that the first columnar spacer, the second columnar spacer and the light shield layer are formed of the same material.

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However, Imabayashi et al. disclose in Column 7 lines 60-65 that formation of the contact areas of the columnar spacers with respect to the different gap areas of the liquid crystal display device such that the columnar spacer located in a larger gap area has a contact area greater than that of the columnar spacer located in a smaller gap area and Wen et al. teach in Column 3 lines 7-9 that the spacers and the light shielding layer can be formed of the same material.

Therefore, it would have been obvious to one of ordinary skill in the art a the time the invention was made to construct a liquid crystal display apparatus as taught by Cho et al., wherein columnar spacers are formed with different contact areas as taught by Imabayashi et al., since Imabayashi et al. teach that the difference in the contact areas between the columnar spacers in relations to their heights helps to control the elasticities of the respective spacers themselves (Column 7, lines 48-55) and to form the columnar spacers and the light shielding layer of the same material as taught by Wen et al., since Wen et al. teach that by forming the spacer the same material as the light shielding layer helps to avoid light dispersion (Column 3, lines 11-13).

With respect to claim 7 (Amended): Cho et al. disclose in Figure 12 a liquid crystal display apparatus including a liquid crystal layer (element 3) interposed between a first substrate (element 200) and a second substrate (element 100), comprising:

a first gap region (region corresponding to element 230R) with a first gap for interposition of the liquid crystal layer between the first substrate and the second substrate;

a second gap region (region corresponding to element 230B) with a second gap smaller than the first gap;

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a first columnar spacer (element 323) formed in the first gap region on the first substrate; and

a second columnar spacer (element 321) formed in the second gap region on the first substrate, and

wherein the first substrate includes a light shield layer (element 220) formed in a pictureframe shape (as shown in Figure 7) along a peripheral edge of a display region.

Cho et al. fail to disclose that wherein a dimension of the first columnar spacer is greater than a dimension of the second columnar spacer, wherein the dimensions of the first and second columnar spacers are defined as cross-sectional areas of the first and second columnar spacers in a horizontal plane parallel to the substrate and that the first columnar spacer, the second columnar spacer and the light shield layer are formed of the same material.

However, Imabayashi et al. disclose in Column 7 lines 60-65 that formation of the cross-sectional areas of the columnar spacers with respect to the different gap areas of the liquid crystal display device such that the columnar spacer located in a larger gap area has a cross-sectional area greater than that of the columnar spacer located in a smaller gap area and Wen et al. teach in Column 3 lines 7-9 that the spacers and the light shielding layer can be formed of the same material.

Therefore, it would have been obvious to one of ordinary skill in the art a the time the invention was made to construct a liquid crystal display apparatus as taught by Cho et al., wherein columnar spacers are formed with different cross-sectional areas as taught by Imabayashi et al., since Imabayashi et al. teach that the difference in the cross-sectional areas between the columnar spacers in relations to their heights helps to control the elasticities of the

respective spacers themselves (Column 7, lines 48-55) and to form the columnar spacers and the light shielding layer of the same material as taught by Wen et al., since Wen et al. teach that by forming the spacer the same material as the light shielding layer helps to avoid light dispersion (Column 3, lines 11-13).

As to claims 2 and 8: Cho et al. further disclose in Figure 12 that the first gap region (region corresponding to element 230R) includes a first color filter (element 230R) that mainly passes first color light, the second gap region (region corresponding to element 230B) includes a second color filter layer (element 230B) that mainly passes second color light, and the first color light has a wavelength greater than a wavelength of the second color light (Red color light has a wavelength greater than blue color light).

As to claims 3 and 9: Cho et al. further disclose in Figure 12 that the first substrate (element 200) includes, in the first gap region (region corresponding to element 230R), a first color filter layer (element 230R) that mainly passes first color light, and includes, in the second gap region (region corresponding to element 230B), a second color filter layer (element 230B) that mainly passes second color light.

As to claims 6 and 12: Cho et al. further disclose in Paragraph 0072 that the first substrate includes a counter electrode common for all pixels.

Claims 1-3 and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida et al. (US 6842207) in view of Imabayashi et al. (US 6678030) further in view of Wen et al. (US 6208401).

With respect to claim 1 (Amended): Nishida et al. disclose in Figure 12b a liquid crystal display apparatus including a liquid crystal layer (element 4) interposed between a first substrate (element 10) and a second substrate (element 10), comprising:

a first gap region (region corresponding to element 6) with a first gap for interposition of the liquid crystal layer between the first substrate and the second substrate;

a second gap region (region corresponding to element 8) with a second gap smaller than the first gap;

a first columnar spacer (element 26) formed in the first gap region on the first substrate; and

a second columnar spacer (element 26) formed in the second gap region on the first substrate, and

wherein the first substrate includes a light shield layer (element 9) formed in a picture-frame shape (Column 16, lines 18-20; wherein the light shield layer is formed in areas other than the display areas) along a peripheral edge of a display region.

Nishida et al. further disclose that the columnar spacer are formed to have different heights (Column 17, lines 1-12, wherein the spacers can be formed any where within the pixel region and thus the thickness of each of the spacers in each pixel region wherein the color filter layer thicknesses are different are adjusted accordingly, since the spacers have different heights, therefore their volumes are thus different), but fail to disclose that wherein a contact area of the first columnar spacer is greater than a contact area of the second columnar spacer and that the first columnar spacer, the second columnar spacer and the light shield layer are formed of the same material.

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However, Imabayashi et al. disclose in Column 7 lines 60-65 that formation of the contact areas of the columnar spacers with respect to the different gap areas of the liquid crystal display device such that the columnar spacer located in a larger gap area has a contact area greater than that of the columnar spacer located in a smaller gap area and Wen et al. teach in Column 3 lines 7-9 that the spacers and the light shielding layer can be formed of the same material.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to construct a liquid crystal display apparatus as taught by Nishida et al., wherein columnar spacers are formed with different contact areas as taught by Imabayashi et al., since Imabayashi et al. teach that the difference in the contact areas between the columnar spacers in relations to their heights helps to control the elasticities of the respective spacers themselves (Column 7, lines 48-55) and to form the columnar spacers and the light shielding layer of the same material as taught by Wen et al., since Wen et al. teach that by forming the spacer the same material as the light shielding layer helps to avoid light dispersion (Column 3, lines 11-13).

With respect to claim 7 (Amended): Nishida et al. disclose in Figure 12b a liquid crystal display apparatus including a liquid crystal layer (element 4) interposed between a first substrate (element 10) and a second substrate (element 10), comprising:

a first gap region (region corresponding to element 6) with a first gap for interposition of the liquid crystal layer between the first substrate and the second substrate;

a second gap region (region corresponding to element 8) with a second gap smaller than the first gap;

a first columnar spacer (element 26) formed in the first gap region on the first substrate; and

a second columnar spacer (element 26) formed in the second gap region on the first substrate, and

wherein the first substrate includes a light shield layer (element 9) formed in a picture-frame shape (Column 16, lines 18-20; wherein the light shield layer is formed in areas other than the display areas) along a peripheral edge of a display region.

Nishida et al. further disclose that the columnar spacer are formed to have different heights (Column 17, lines 1-12, wherein the spacers can be formed any where within the pixel region and thus the thickness of each of the spacers in each pixel region wherein the color filter layer thicknesses are different are adjusted accordingly, since the spacers have different heights, therefore their volumes are thus different), but fail to disclose that wherein a dimension of the first columnar spacer is greater than a dimension of the second columnar spacer, wherein the dimensions of the first and second columnar spacers are defined as cross-sectional areas of the first and second columnar spacers in a horizontal plane parallel to the substrate and that the first columnar spacer, the second columnar spacer and the light shield layer are formed of the same material.

However, Imabayashi et al. disclose in Column 7 lines 60-65 that formation of the cross-sectional areas of the columnar spacers with respect to the different gap areas of the liquid crystal display device such that the columnar spacer located in a larger gap area has a cross-sectional area greater than that of the columnar spacer located in a smaller gap area and Wen et al. teach in

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Column 3 lines 7-9 that the spacers and the light shielding layer can be formed of the same material.

Therefore, it would have been obvious to one of ordinary skill in the art a the time the invention was made to construct a liquid crystal display apparatus as taught by Nishida et al., wherein columnar spacers are formed with different cross-sectional areas as taught by Imabayashi et al., since Imabayashi et al. teach that the difference in the cross-sectional areas between the columnar spacers in relations to their heights helps to control the elasticities of the respective spacers themselves (Column 7, lines 48-55) and to form the columnar spacers and the light shielding layer of the same material as taught by Wen et al., since Wen et al. teach that by forming the spacer the same material as the light shielding layer helps to avoid light dispersion (Column 3, lines 11-13).

As to claims 2 and 8: Nishida et al. further disclose in Figure 12b that the first gap region (region corresponding to element 6) includes a first color filter (element 6) that mainly passes first color light, the second gap region (region corresponding to element 8) includes a second color filter layer (element 8) that mainly passes second color light, and the first color light has a wavelength greater than a wavelength of the second color light (Red color light has a wavelength greater than blue color light).

As to claims 3 and 9: Nishida et al. further disclose in Figure 12b that the first substrate (element 10) includes, in the first gap region (region corresponding to element 6), a first color filter layer (element 6) that mainly passes first color light, and includes, in the second gap region (region corresponding to element 8), a second color filter layer (element 8) that mainly passes second color light.

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Claims 4 and 10are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida et al. (US 6842207), Imabayashi et al. (US 6678030) and Wen et al. (US 6208401) in view of Ochiai et al. (US 6768531).

Nishida et al., Imabayashi et al. and Wen et al. disclose all of the limitations set forth in the previous claims, but fail to disclose that the first substrate is of an active matrix substrate.

However, Ochiai et al. disclose in Figure 10 a liquid crystal display wherein the columnar spacer (element SUP) is formed on the color filter layers with different thicknesses (element FIL) on the first substrate and the first substrate further includes scan lines (Figure 1, element GL) disposed in a row direction, signal lines (element DL) disposed in a column direction, switching elements (Figure 2, element TFT) disposed near intersections of the scan lines and the signal lines, and pixel electrodes (element PX) connected to the switching elements and disposed in a matrix.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to construct a liquid crystal display having variable cell gaps formed by different thickness color filter layers having columnar spacers deposited thereon as taught by Nishida et al., Imabayashi et al. and Wen et al. wherein the columnar spacer is formed on the color filter layers with different thicknesses on an active matrix substrate as taught by Ochiai et al., Ochiai et al. teach that by forming the color filter layer along with the columnar spacer on the active matrix substrate helps to reduce the influence of the displacement of alignment of the opposing substrate, thus results in a high definition display device (Column 1, lines 34-41).

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Claims 1, 6, 7 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over YI et al. (US 2003/0104291) in view of Nishida et al. (US 6842207) further in view of Imabayashi et al. (US 6678030).

With respect to claims 1 (Amended) and 6: YI et al. disclose in Figure 5E a liquid crystal display apparatus comprising a first substrate (element 100) including a counter electrode (element 110), liquid crystal layer interposed between a first substrate and a second substrate comprising of first and second gap regions (regions between element 118 corresponding to elements 108a-108c) and first and second columnar spacers (element 118) formed in the gap regions and wherein the first substrate includes a light shield layer (element 116) formed in a picture-frame shape (as shown in Figure 1, element 6) along a peripheral edge of a display region, and the first columnar spacer, the second column.

YI et al. fail to disclose that the second gap region has a second gap smaller than the first gap and that the first columnar spacer has a contact area greater than a contact area of the second columnar spacer.

However, Nishida et al. disclose in Figure 12b and Column 7 lines 1-12 a liquid crystal display apparatus comprising:

a first gap region (region corresponding to element 6) with a first gap for interposition of the liquid crystal layer between the first substrate and the second substrate;

a second gap region (region corresponding to element 8) with a second gap smaller than the first gap;

a first columnar spacer (element 26) formed in the first gap region on the first substrate; and

a second columnar spacer (element 26) formed in the second gap region on the first substrate,

wherein a dimension and volume of the first columnar spacer is greater than a dimension of the second columnar spacer (Column 17, lines 1-12, wherein the spacers can be formed any where within the pixel region and thus the thickness of each of the spacers in each pixel region wherein the color filter layer thicknesses are different are adjusted accordingly, since the spacers have different heights, therefore their volumes are thus different) and further Imabayashi et al. disclose in Column 7 lines 60-65 that formation of the contact areas of the columnar spacers with respect to the different gap areas of the liquid crystal display device such that the columnar spacer located in a larger gap area has a contact area greater than that of the columnar spacer located in a smaller gap area.

Therefore, it would have been obvious to one of ordinary skill in the art a the time the invention was made to construct a liquid crystal display apparatus as taught by YI et al., wherein the first gap and that the first columnar spacer has a dimension and volume greater than a dimension and volume of the second columnar spacer as taught by Nishida et al., since Nishida et al. teach that a very good display which does not exhibit any coloring in whichever direction it is viewed can be obtained by varying the gap size of the liquid crystal layer and that the columnar spacers with different dimension and volume are provided as to maintain the different cell gaps (Abstract) and to form columnar spacers with different contact areas as taught by Imabayashi et al., since Imabayashi et al. teach that the difference in the contact areas between the columnar spacers in relations to their heights helps to control the elasticities of the respective spacers themselves (Column 7, lines 48-55).

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With respect to claims 7 (Amended) and 12: YI et al. disclose in Figure 5E a liquid crystal display apparatus comprising a first substrate (element 100) including a counter electrode (element 110), liquid crystal layer interposed between a first substrate and a second substrate comprising of first and second gap regions (regions between element 118 corresponding to elements 108a-108c) and first and second columnar spacers (element 118) formed in the gap regions and wherein the first substrate includes a light shield layer (element 116) formed in a picture-frame shape (as shown in Figure 1, element 6) along a peripheral edge of a display region, and the first columnar spacer, the second column.

YI et al. fail to disclose that the second gap region has a second gap smaller than the first gap and that the first columnar spacer has a dimension greater than a dimension of the second columnar spacer, wherein the dimensions of the first and second columnar spacers are defined as cross-sectional areas of the first and second columnar spacers in a horizontal plane parallel to the substrate.

However, Nishida et al. disclose in Figure 12b and Column 17 lines 1-12 a liquid crystal display apparatus comprising:

a first gap region (region corresponding to element 6) with a first gap for interposition of the liquid crystal layer between the first substrate and the second substrate;

a second gap region (region corresponding to element 8) with a second gap smaller than the first gap;

a first columnar spacer (element 26) formed in the first gap region on the first substrate; and

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a second columnar spacer (element 26) formed in the second gap region on the first substrate,

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wherein a dimension and volume of the first columnar spacer is greater than a dimension of the second columnar spacer (Column 17, lines 1-12, wherein the spacers can be formed any where within the pixel region and thus the thickness of each of the spacers in each pixel region wherein the color filter layer thicknesses are different are adjusted accordingly, since the spacers have different heights, therefore their volumes are thus different) and further Imabayashi et al. disclose in Column 7 lines 60-65 that formation of the cross-sectional areas of the columnar spacers with respect to the different gap areas of the liquid crystal display device such that the columnar spacer located in a larger gap area has a cross-sectional area greater than that of the columnar spacer located in a smaller gap area.

Therefore, it would have been obvious to one of ordinary skill in the art a the time the invention was made to construct a liquid crystal display apparatus as taught by YI et al., wherein the first gap and that the first columnar spacer has a dimension and volume greater than a dimension and volume of the second columnar spacer as taught by Nishida et al., since Nishida et al. teach that a very good display which does not exhibit any coloring in whichever direction it is viewed can be obtained by varying the gap size of the liquid crystal layer and that the columnar spacers with different dimension and volume are provided as to maintain the different cell gaps (Abstract) and to form columnar spacers with different cross-sectional areas as taught by Imabayashi et al., since Imabayashi et al. teach that the difference in the cross-sectional areas between the columnar spacers in relations to their heights helps to control the elasticities of the respective spacers themselves (Column 7, lines 48-55).

Response to Arguments

Applicant's arguments with respect to all claims have been considered but are moot in view of the new ground(s) of rejection.

Relevant Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yanagawa et al. (US 6552770); wherein the spacer and light shield layer are made of the same material.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to W. Patty Chen whose telephone number is (571)272-8444. The examiner can normally be reached on 8:00-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on (571)272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

W. Patty Chen Examiner Art Unit 2871

WPC 8/28/06

> A Du Slutter ANDREW SCHECHTER PRIMARY EXAMINER